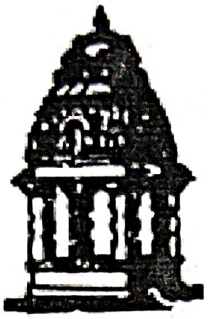
BRUHAT BANGALORE MAHANAGARA PALIKE



Asst. Executive Engineer,
Shettyhalli Sub Division,

Name of Work:- Improvements to Roads and Drains in Ward No.13

Est Cost:98.00 Lakhs

BRUHATH BENGALORE MAHANAGARA PALIKE DASARAHALLI ZONE

Name of Work :- Improvements to Roads and Drains in Ward No.13

1/6

Estimated Cost:98.00 Lakhs

No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	KSRRB 300-3. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **(Page No. 142/ Item No. 19.1/ PWD SR 2018-19)**								
	Desilt								
	Mallasandra Surrounding Area	2	106.00	0.60	0.50	63.60			
	For RCC Drain								
	Shanthi Layout								
	1st cross (W0044)	2	68.00	1.10	1.00	149.60			
	2nd cross (W0046)	2	68.00	1.10	1.00	149.60			
		1	30.00	1.10	1.00	33.00			
	3rd cross (W0048)	1	78.00	1.10	1.00	85.80			
	Aai Matha Temple Road (W0033)	1	75.00	1.10	1.00	82.50			
	Aai Matha Temple Back Side Road	1	60.00	1.00	1.00	60.00			
	2nd A Cross, Lakeview side Avenue	1	27.00	1.10	1.00	29.70			
	Mallasandra								
	1st cross W00 B4	1	11.00	1.10	1.00	12.10			
	2nd cross H00 B8	1	52.00	1.10	1.00	57.20			
	Aai Matha Temple Opp Road								
	1st cross	2	20.00	1.10	1.00	44.00			
	For RCC Culvert								
	Near Aai Matha Temple Road	2	4.50	1.70	1.00	15.30			
		2	5.00	1.70	1.00	17.00			
	Anjaneya Temple Road	1	8.00	1.70	1.00	13.60			
	For CC Road								
	Shanthi Layout								
	1st cross	1	68.00	5.70	0.30	116.28			
	2nd cross	1	68.00	5.70	0.30	116.28			
	Aai Matha Temple Back Side Road	1	54.00	4.80	0.30	77.76			
	Aai Matha Temple Opp Roads								
	1st cross	1	20.00	4.20	0.30	25.20			
	2nd cross	1	20.00	4.20	0.30	25.20			
	Anjaneya Temple Road	2	90.00	1.00	0.30	54.00			
	1st cross,Mallasandra	2	64.00	1.00	0.30	38.40			
						1266.12	**Cum**	**137.80**	**174471.34**
	Basic Rate	130.00							
	Area Weightage 6%	7.80							
	Data Rate	**137.80**							
2	Removing And Refixing stone slabs of drains and pointing in C.M (1:3) (Page No.27/ Item No.5.33/ PWD SR 2018-19)								
	Removing and Refixing								
	Mallasandra Surrounding Area	2	106.00	0.90		190.80			
		Consider 50% of missing slab				**95.40**			
						95.40	**Sqm**	**111.30**	**10618.02**
	Basic Rate	105.00							
	Area Weightage 6%	6.30							
	Grand Total	**111.30**							

l No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
3	(SRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. **(P.No-222,I No-27.18 PWD SR 2018-19)**								
	Shanthi Layout								
	For RCC Drain								
	1st cross	2	68.00	1.10	0.15	22.44			
	2nd cross	2	68.00	1.10	0.15	22.44			
		1	30.00	1.10	0.15	4.95			
	3rd cross	1	78.00	1.10	0.15	12.87			
	Aai Matha Temple Road	1	75.00	1.10	0.15	12.38			
	Aai Matha Temple Back Side Road	1	60.00	1.00	0.15	9.00			
	2nd A Cross, Lakeview side Avenue	1	27.00	1.10	0.15	4.46			
	Mallasandra								
	1st cross	1	11.00	1.10	0.15	1.82			
	2nd cross	1	52.00	1.10	0.15	8.58			
	Aai Matha Temple Opp Road								
	1st cross	2	20.00	1.10	0.15	6.60			
	For RCC Culvert								
	Near Aai Matha Temple Road	2	4.50	1.70	0.15	2.30			
		2	5.00	1.70	0.15	2.55			
	Anjaneya Temple Road	1	8.00	1.70	0.15	2.04			
	For CC Road								
	1st cross	1	68.00	5.70	0.15	58.14			
	2nd cross	1	68.00	5.70	0.15	58.14			
	Aai Matha Temple Back Side Road	1	60.00	4.80	0.15	43.20			
	Aai Matha Temple Opp Roads								
	Cross-1	1	20.00	4.20	0.15	12.60			
	cross-2	1	20.00	4.20	0.15	12.60			
	Anjaneya Temple Road	2	90.00	1.00	0.15	27.00			
	1st cross,Mallasandra	2	64.00	1.00	0.15	19.20			
						343.29	**Cum**	**5509.33**	**1891296.76**
	Basic Rate	5115.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						
	Sub Total	**5197.48**							
	Area Weightage 6%	311.85							
	Grand Total	**5509.33**							
4	Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm **(I No-37.59.2,P No-271 PWD SR 2018-19)**								
	Shanthi Layout								
	For RCC Drain								
	Bottom Raft								
	1st cross	2	68.00	0.90	0.15	18.36			
	2nd cross	2	68.00	0.90	0.15	18.36			
		1	30.00	0.90	0.15	4.05			
	3rd cross	1	78.00	0.90	0.15	10.53			
	Aai Matha Temple Road	1	75.00	0.90	0.15	10.13			

l No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Aai Matha Temple Back Side Road	1	60.00	0.90	0.15	8.10			
	2nd A Cross, Lakeview side Avenue	1	27.00	0.90	0.15	3.65			
	Mallasandra								
	1st cross	1	11.00	0.90	0.15	1.49			
	2nd cross	1	52.00	0.90	0.15	7.02			
	Aai Matha Temple Opp Road								
	1st cross	2	20.00	0.90	0.15	5.40			
	For RCC Culvert								
	Near Aai Matha Temple Road	2	4.50	1.50	0.20	2.70			
		2	5.00	1.50	0.20	3.00			
	Anjaneya Temple Road	1	8.00	1.50	0.20	2.40			
	For Wall								
	1st cross	4	68.00	0.15	0.75	30.60			
	2nd cross	4	68.00	0.15	0.75	30.60			
		2	30.00	0.15	0.75	6.75			
	3rd cross	2	78.00	0.15	0.75	17.55			
	Aai Matha Temple Road	2	75.00	0.15	0.75	16.88			
	Aai Matha Temple Back Side Road	2	60.00	0.15	0.75	13.50			
	2nd A Cross, Lakeview side Avenue	2	27.00	0.15	0.75	6.08			
	Mallasandra								
	1st cross	2	11.00	0.15	0.75	2.48			
	2nd cross	2	52.00	0.15	0.75	11.70			
	Aai Matha Temple Opp Road								
	1st cross	4	20.00	0.15	0.75	9.00			
	For RCC Culvert								
	Near Aai Matha Temple Road	4	4.50	0.30	0.60	3.24			
		4	5.00	0.30	0.60	3.60			
	Anjaneya Temple Road	2	8.00	0.30	0.60	2.88			
	For Ramp								
	Near Aai Matha Temple Road	4	4.50	0.75	0.15	2.03			
		4	5.00	0.75	0.15	2.25			
	Anjaneya Temple Road	2	8.00	0.75	0.15	1.80			
						256.10	**Cum**	**7189.42**	**1841174.05**
	Basic Rate	6670.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1471.89	Note:- (300*490.63/100)=1471.89						
	Add Cement cost as per Issue rate	1584.36	Note:- (300*264.06/50)=1584.36						
	Sub Total	**6782.47**							
	Area Weightage 6%	406.95							
	Grand Total	**7189.42**							
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 **(I No-28.8.2,P No-229 PWD SR 2018-19)**								
	Consider 65kg/Cum for drain	1	238.28	65.00		15487.88			
	Consider 90kg/Cum for drain	1	17.82	90.00		1603.80			
						17.09	**Tonne**	**72326.98**	**1236189.24**
	Basic Rate	68233.00							
	Area Weightage 6%	4093.98							
	Data Rate	**72326.98**							

l No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
6	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges.**(Data Rate)**								119
	Shanthi Layout								
	For RCC Drain								
	1st cross	2	68.00	0.90		122.40			
	2nd cross	2	68.00	0.90		122.40			
		1	30.00	0.90		27.00			
	3rd cross	1	78.00	0.75		58.50			
	Aai Matha Temple Road	1	75.00	0.75		56.25			
	Aai Matha Temple Back Side Road	1	60.00	0.75		45.00			
	2nd A Cross, Lakeview side Avenue	1	27.00	0.90		24.30			
	Mallasandra								
	1st cross	1	11.00	0.90		9.90			
	2nd cross	1	28.00	0.90		25.20			
	Aai Matha Temple Opp Road								
	1st cross	2	20.00	0.90		36.00			
		Providing new slabs as per item no.02				95.40			
						622.35	**Sqm**	**1615.00**	**1005095.25**
	Data Rate	**1615.00**							
7	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **(Page No. 146/ Item No.19.55/ PWD SR 2018-19)**								
	For CC Road								
	1st cross	1	68.00	5.70		387.60			
	2nd cross	1	68.00	5.70		387.60			
						775.20	**Sqm**	**95.40**	**73954.08**
	Basic Rate	90.00							
	Area Weightage 6%	5.40							
	Data Rate	**95.40**							
8	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 **(Page No-140 Item no - 18.47 of KPWD SR 2018-19)**								
	For CC Road								
	Anjaneya Temple Road	2	90.00	1.00	0.15	27.00			
	1st cross,Mallasandra	2	64.00	1.00	0.15	19.20			
						46.20	**Sqm**	**952.94**	**44025.83**
	Basic Rate	899.00							
	Area Weightage 6%	53.94							
	Data Rate	**952.94**							
9	KSRRB 300-Compaction KSRRB 300-58. **Compaction of original ground** with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.**(P.No. 147, I.No. 19.64 PWD SR 2018-19)**								
	For CC Road								
	1st cross	1	68.00	5.70		387.60			
	2nd cross	1	68.00	5.70		387.60			
	Aai Matha Temple Back Side Road	1	54.00	4.80		259.20			
	Aai Matha Temple Opp Roads								
	Cross-1	1	20.00	4.20		84.00			
	cross-2	1	20.00	4.20		84.00			
	Anjaneya Temple Road	2	90.00	1.00		180.00			

I No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	1st cross,Mallasandra	2	64.00	1.00		128.00			
						1510.40	**Sqm**	**6.36**	**9606.14**
	Basic Rate	6.00							
	Area Weightage 6%	0.36							
	Data Rate	**6.36**							
10	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **(Page No.155.tem No.20.18,PW,P & IWTD SR 2018-19)**								
	For CC Road								
	1st cross	1	68.00	5.70	0.15	58.14			
	2nd cross	1	68.00	5.70	0.15	58.14			
	Aai Matha Temple Back Side Road	1	54.00	4.80	0.15	38.88			
	Aai Matha Temple Opp Roads								
	Cross-1	1	20.00	4.20	0.15	12.60			
	cross-2	1	20.00	4.20	0.15	12.60			
	Anjaneya Temple Road	2	90.00	1.00	0.15	27.00			
	1st cross,Mallasandra	2	64.00	1.00	0.15	19.20			
						226.56	**Cum**	**2001.28**	**453410.00**
	Basic Rate	1888.00							
	Area Weightage 6%	113.28							
	Data Rate	**2001.28**							
11	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **(Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)**									
	For CC Road								
	1st cross	1	68.00	5.70	0.15	58.14			
	2nd cross	1	68.00	5.70	0.15	58.14			
	Aai Matha Temple Back Side Road	1	54.00	4.80	0.15	38.88			
	Aai Matha Temple Opp Roads								
	Cross-1	1	20.00	4.20	0.15	12.60			
	cross-2	1	20.00	4.20	0.15	12.60			
	Anjaneya Temple Road	1	90.00	6.00	0.10	54.00			
	1st cross,Mallasandra	1	64.00	5.20	0.15	49.92			
						284.28	**Cum**	**5354.02**	**1522041.33**
	Basic Rate	4916.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1766.27	Note:- (360*490.63/100)=1766.27						
	Add Cement cost as per Issue rate	1901.23	Note:- (360*264.06/50)=1901.23						
	Sub Total	**5050.96**							
	Area Weightage 6%	303.06							
	Grand Total	**5354.02**							

No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 **(P.No.136 & I.No.17.1 PWD 18-19)**								121
	Vide Item No.1,7 & 8					1358.83			
						1358.83	**Cum**	**57.00**	**77453.42**
	Basic Rate	**57.00**							
	KSRRB M100-4.1. Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road (P.No.136 & I.No.17.4 PWD 18-19)								
	Vide Item No.12					1358.83			
						1358.83	**t.km**	**25.60**	**34786.10**
	lead for earth 10 km(2*1.28*10=25.60)	**25.60**							
								Total Construction Cost	**8374121.55**
								GST Charges 12%	**1004894.59**
								Tender Premium 5%	**418706.08**
								Sub Total	**9797722.22**
								Utility Shifting,Miscellaneous and Rounding off	**2277.78**
								GRAND TOTAL	**9800000.00**
	Rupees Ninety Eight Lakh(s) Only								

Certificate

Work Comes Within BBMP Limits.

ied that personaly Inspected the Work Spot.

ied that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19 & issued rate Dated. 21/10/2019

ate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most economical way

ork is not include in any other program of work.

Assistant Engineer
Ward No.13

Asst. Executive Engineer,
Shettyhalli Sub division,

Executive Engineer,
Dasarahalli Division

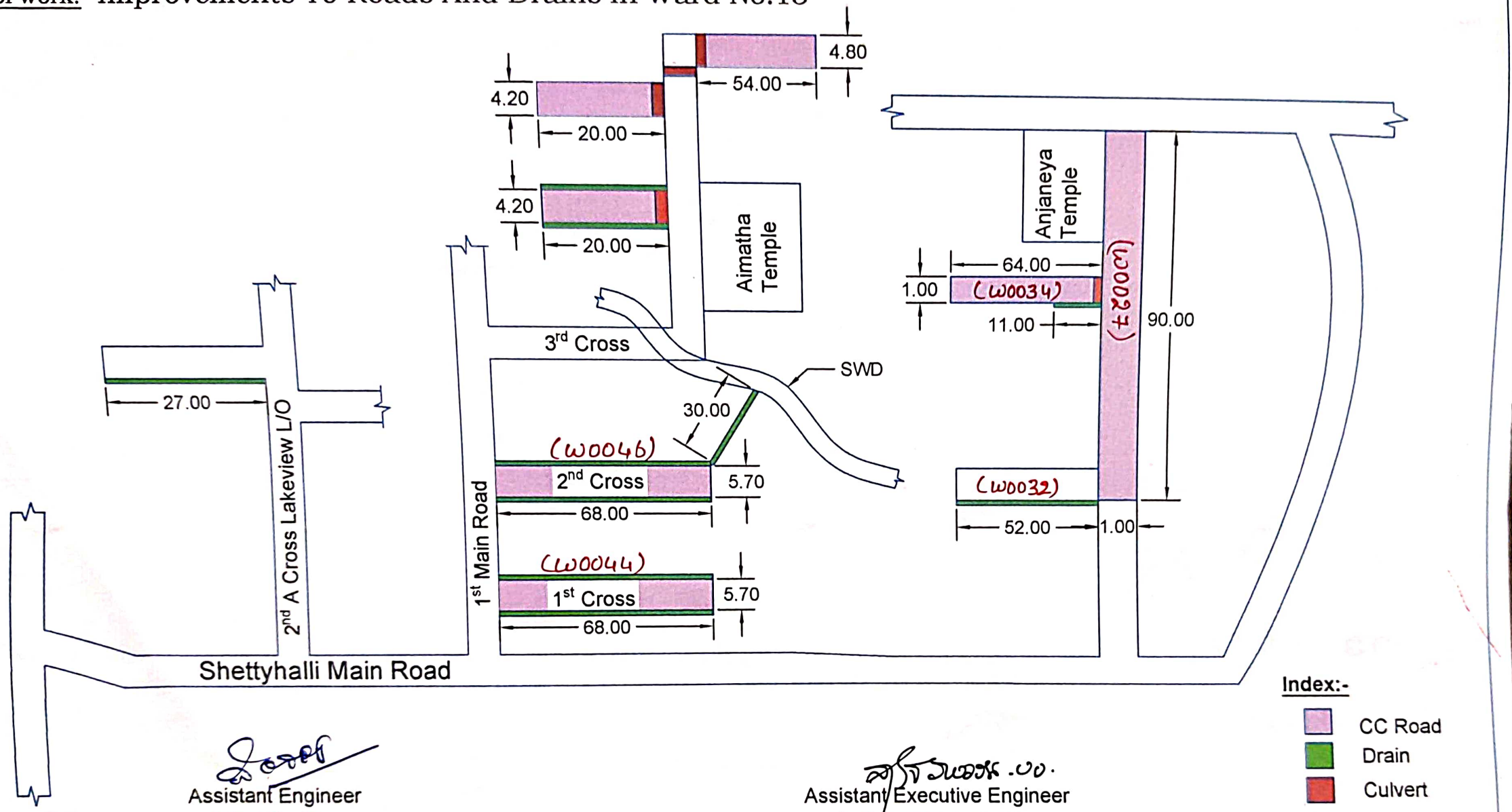
ADMINISTRATIVELY SANCTIONED FOR 98.00Lakh
(Rupees..Ninty Eight Lakh Rupees.....
.....
Under the Head of Account P-3657.....
Development of Kempegowda Parking...
.Nallasandra.
Registered as EDD AS 85/2021 Subject
to conditions contained in Enclosed Memo
No FE/DP/AS/85/20-21 Dt.23/07/20

AE/AE. EXC EE (DASARAHALLI) Dn

Technically Sanctioned For Rs: 98,00,000 Lakh
Rs. In Words Ninty Eight Lakh Rupees only
Under P-3657 Development of Kempegowda park
Job Code No. 013-20-000022
Registered as SE No. 56 /17/07/20 Subject
to conditions contained in Enclosed Memo
No SE/02/TS /56/2020-21 Dt. 17/07/20

AE / JE TA SE(D)

of work:- Improvements To Roads And Drains In Ward No.13



Assistant Engineer
Ward No.13

Assistant Executive Engineer
Shettyhalli Sub division

All dimensions are in meters